



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22nd Mar 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 21.03.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-मार्च-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 21st Mar 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 22-Mar-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	39680	46970	43591	17473	2437	150151
Peak Shortage (MW)	564	0	0	0	64	628
Energy Met (MU)	843	1143	1104	362	43	3495
Hydro Gen (MU)	142	39	82	35	4	303
Wind Gen (MU)	14	50	25	-	-	88
Solar Gen (MU)*	39.30	30.20	100.22	4.45	0.04	174
Energy Shortage (MU)	9.3	0.0	0.0	0.0	0.5	9.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	41710	56086	51293	17463	2484	161746
Time Of Maximum Demand Met (From NLDC SCADA)	19:28	10:20	13:51	18:50	18:27	10:20

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.039	0.00	0.00	1.99	1.99	64.06	33.95

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5222	0	105.7	72.0	-0.1	203	0.0
	Haryana	5698	0	115.1	85.5	1.2	204	0.0
	Rajasthan	10895	0	202.4	53.2	-1.0	456	0.0
	Delhi	3215	0	59.1	44.2	-2.0	75	0.0
	UP	15116	0	255.7	116.2	1.1	901	0.0
	Uttarakhand	1712	0	33.4	15.1	-0.2	132	0.0
	HP	1434	60	21.1	16.9	-0.6	204	0.0
	J&K(UT) & Ladakh(UT)	2434	609	47.7	39.9	-0.7	184	9.3
	Chandigarh	166	0	2.8	3.1	-0.3	16	0.0
	Chhattisgarh	3848	0	84.4	31.9	-1.8	152	0.0
WR	Gujarat	16816	0	357.9	76.4	2.0	494	0.0
	MP	9846	0	191.5	104.9	-0.2	581	0.0
	Maharashtra	22272	0	468.2	147.4	-0.5	467	0.0
	Goa	478	0	9.9	10.0	-0.1	43	0.0
	DD	328	0	7.4	7.0	0.4	44	0.0
	DNH	818	0	18.9	18.9	0.0	32	0.0
	Essar steel	814	0	5.2	5.1	0.1	288	0.0
	Andhra Pradesh	9810	0	192.9	92.8	0.3	873	0.0
	Telangana	11541	0	236.8	128.6	0.1	547	0.0
	Karnataka	12039	0	244.8	78.3	1.0	437	0.0
SR	Kerala	3738	0	81.7	59.2	1.5	238	0.0
	Tamil Nadu	14695	0	339.8	207.3	1.1	638	0.0
	Puducherry	385	0	8.3	8.6	-0.3	19	0.0
	Bihar	3822	0	68.6	68.0	-1.6	200	0.0
	DVC	2952	0	61.7	-43.8	1.0	440	0.0
	Jharkhand	1201	0	23.3	15.0	-1.1	95	0.0
	Odisha	3463	0	71.6	-4.6	0.9	360	0.0
	West Bengal	6734	0	135.2	34.7	2.5	450	0.0
	Sikkim	102	0	1.4	1.7	-0.3	18	0.0
	NER	Arumachal Pradesh	121	1	2.2	2.2	-0.1	36
Assam		1408	42	24.0	20.0	0.6	88	0.4
Manipur		186	2	2.7	2.5	0.2	28	0.0
Meghalaya		357	0	5.8	4.0	0.5	81	0.1
Mizoram		101	1	1.8	1.3	0.3	33	0.0
Nagaland		124	1	2.2	2.0	0.1	10	0.0
Tripura		239	2	3.8	2.7	-0.4	36	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.6	-8.3	-10.1
Day Peak (MW)	410.1	-462.7	-1084.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.4	-254.0	197.2	-119.5	6.8	-0.1
Actual(MU)	161.7	-267.5	224.7	-131.5	8.7	-3.9
OD/UD(MU)	-7.8	-13.4	27.5	-12.0	1.9	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5530	16891	4752	510	727	28810
State Sector	17345	15252	9075	9000	11	46683
Total	22875	32143	13827	5910	738	75493

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	396	1148	512	474	9	2538
Lignite	23	16	49	0	0	87
Hvdro	142	39	82	35	4	303
Nuclear	24	37	69	0	0	129
Gas, Naptha & Diesel	29	89	18	0	24	159
RES (Wind, Solar, Biomass & Others)	78	91	152	5	0	325
Total	691	1419	881	513	38	3541
Share of RES in total generation (%)	11.22	6.39	17.27	0.88	0.11	9.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total	35.22	11.70	34.42	7.71	11.56	21.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.077

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)

Date of Reporting: 22-Mar-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	S/C	0	251	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	D/C	0	490	0.0	6.1	-6.1	
4	765 kV	SASARAM-FATEHPUR	S/C	42	300	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	S/C	0	371	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	210	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	103	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	508	0.0	5.8	-5.8	
9	400 kV	PATNA-BALIA	Q/C	0	638	0.0	10.1	-10.1	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	230	0.0	2.6	-2.6	
11	400 kV	MOTHARI-GORAKHPUR	D/C	0	323	0.0	5.9	-5.9	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	174	100	1.1	0.0	1.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	149	0.0	2.7	-2.7	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.4	54.6	-53.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1383	0	26.0	0.0	26.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	474	118	5.0	0.0	5.0	
3	765 kV	JHARSUGUDA-DURG	D/C	42	174	0.0	1.4	-1.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	63	140	0.0	0.9	-0.9	
5	400 kV	RANCHI-SIPAT	D/C	179	25	2.7	0.0	2.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	86	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	145	0	2.6	0.0	2.6	
						ER-WR	36.3	3.5	32.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	709	0.0	15.7	-15.7	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2453	0.0	49.1	-49.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	3183	0.0	67.4	-67.4	
4	400 kV	TALCHER-I/C	D/C	0	1249	0.0	18.0	-18.0	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	132.3	-132.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	D/C	0	467	0.0	6.3	-6.3	
2	400 kV	ALIPURDUAR-BONGAIGAOON	D/C	0	619	0.0	8.6	-8.6	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	119	0.0	1.4	-1.4	
						ER-NER	0.0	16.3	-16.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	300	0.0	7.2	-7.2	
						NER-NR	0.0	7.2	-7.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	651	0.0	11.4	-11.4	
2	HVDC	V'CHAL B/B	D/C	448	0	10.0	0.0	10.0	
3	HVDC	APL -MHG	D/C	0	1078	0.0	26.7	-26.7	
4	765 kV	GWALIOR-AGRA	D/C	0	2122	0.0	40.4	-40.4	
5	765 kV	PHAGI-GWALIOR	D/C	0	1281	0.0	18.7	-18.7	
6	765 kV	JABALPUR-ORAI	D/C	0	693	0.0	25.9	-25.9	
7	765 kV	GWALIOR-ORAI	S/C	488	0	8.1	0.0	8.1	
8	765 kV	SAINA-ORAI	S/C	0	1790	0.0	27.4	-27.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	376	185	2.1	0.0	2.1	
10	400 kV	ZERDA-KANKROLI	S/C	191	0	3.2	0.0	3.2	
11	400 kV	ZERDA -BHINMAL	S/C	273	74	0.0	2.0	-2.0	
12	400 kV	V'CHAL -RIHAND	S/C	971	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUALPUR	D/C	82	231	0.8	0.0	0.8	
14	220 kV	BHANPURA-RANPUR	S/C	12	60	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MORAK	S/C	0	115	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	S/C	78	0	1.0	0.0	1.0	
17	220 kV	MALANPUR-AURAIYA	S/C	42	10	0.3	0.0	0.3	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	47.7	155.5	-107.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0	
2	HVDC	BARSUR-L-SILERRU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2682	0.0	48.2	-48.2	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3414	0.0	66.3	-66.3	
5	400 kV	KOLHAPUR-KUDGI	D/C	853	0	12.3	0.0	12.3	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	62	0.0	1.3	-1.3	
8	220 kV	XELDEM-AMBEWADI	S/C	0	96	1.9	0.0	1.9	
						WR-SR	14.1	139.8	-125.6

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	11	0	-38	-0.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	105	97	95	2.3
	ER	TALA (6 * 170) BINAGURI RECEIPT	150	11	64	1.5
	NER	132KV-SALAKATI - GELEPHU	14	0	-7	-0.2
	NER	132KV-RANGIA - DEOTHANG	21	0	-6	-0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.6
	ER	132KV-BIHAR - NEPAL	-147	-11	-70	-1.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-274	-196	-252	-6.1
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-946	-614	-312	-7.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-54	-1.3